17 MAR 2005

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 16 FEB 2005

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Applicant's or agent's file reference		FOR FURTHER ACT	TION		of Transmittal of International amination Report (Form PCT/IPE	EA/416)	
• •		International filing date (da 16.09.2003	ay/mont	h/year)	Priority date (day/month/year) 17.09.2002		
International Pa C08F10/00	International Patent Classification (IPC) or both national classification and IPC C08F10/00						
Applicant BASELL POLYOLEFINE GMBH							
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. This RE	2. This REPORT consists of a total of 5 sheets, including this cover sheet.						
be	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These a	These annexes consist of a total of sheets.						
3. This rep	ort contains indications re	lating to the following iter	ns:				
ı 🗵	Basis of the opinion						
11 🗆	Priority					-	
	Non-establishment of	opinion with regard to nov	velty, ir	ventive step a	nd industrial applicability		
IV 🗆	IV 🔲 Lack of unity of invention						
V 🛛	V 🖾 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					licability;	
VI 🗆	VI						
VII 🗆							
VIII 🗆	VIII Certain observations on the international application						
Date of submission of the demand		Date of	completion of thi	s report			
25.02.2004		16.02.2005					
Name and mailing address of the international preliminary examining authority:			Authoriz	ed Officer		Softenes Pelentage	
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswljk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		Parry,	.1	4 • <u>a</u>	' M 1		
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International application No.

PCT/EP 03/10283

I. Ba	sis	of	the	re	oq	rt
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	scription, Pages						
	1-1	5	as originally filed					
	Cla	ims, Numbers						
	1-1	8	as originally filed					
	Dra	awings, Sheets						
	1		as originally filed					
2.	Wit lang	h regard to the lang u guage in which the in	lage, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.					
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pub	lication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under .3).					
3.	Witl inte	h regard to any nucle rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the international application in written form.						
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.						
		The statement that to in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.					
		The statement that t listing has been furn	the information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have r	resulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they hav	/e
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).	_

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

7-12

No: Claims

1-6,13-18

Inventive step (IS)

Yes: Claims

No: Claims

1-18

Industrial applicability (IA)

Yes: Claims

1-18

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following documents (D1-D2) will be referred to (see the ISR for the relevant passages):

D1: US 2002/017617 A1 (BRENNER ARMIN ET AL) 14 February 2002 (2002-02-14)

D2: WO 01/44801 A (DAHL IVAR M ;KARLSSON ARNE (NO); WENDELBO RUNE (NO); AKPORIAYE DUN) 21 June 2001 (2001-06-21)

- 1. D1 describes a method for determining properties of a material library which includes (i) introducing the material (ii) carrying out a chemical reaction (polymerisation) and (iii) analysing the reaction product in the liquid or gas effluent. Catalysts or catalyst precursors can be heated to temperatures of 20-1500 C to dry or calcine the catalyst. Since polymers can exist in the molten state or dissolved as solutions in organic solvents (like in HPLC analysis of polymers), they can be analysed in a liquid effluent. Hence present claims 1-6 are not novel.
- 2. Since the analysis of the polymer products of D1 in liquids is not problematic (see point 1 above), and is in fact standard in the art (for example, in HPLC), claims 7-12 appear obvious modifications to make in the light of D1 taken alone or in conjunction with D2 (see the whole document). Hence claims 7-12 are not considered inventive.
- 3. Claims 13-18 appear to be anticipated by D2 (see the whole document, especially the figures). The frit 208 of D2 (see for example fig. 2) merely corresponds to the "bottom (10)" of present claim 13. There are therefore no "internals" according to present claim 13. Thus see the text of D2 on p. 10 reproduced herein below, especially the part underlined for one alternative reactor structure:

"Figures 1-4 show several different general schematics that are suitable for fluidizing the catalyst beds in the present invention. Each of the figures shows a single reactor and, in actual practice, the number of reactors may equal the number of catalysts in the array of catalysts being evaluated. FIG. 1 is the most simplistic in concept and depicts the fluidizing gas flow 2 being introduced below the reactor 4 and flowing upward through a frit 6 in the bottom of the reactor to fluidize the catalyst bed 8. Frit 10 operates to contain the catalyst within

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EXAMINATION REPORT - SEPARATE SHEET

reactor 4. The effluent is removed at the top of reactor 4 via line 12. FIG. 2 shows an alternate system where the fluidizing gas flow 202 is introduced to the reactor 204 through conduit 206 which extends through reactor 204 and through frit 208 into catalyst bed 210. The effluent is removed via channel 212. Alternatively, the catalyst bed may be located above frit 208 shown as catalyst bed 214."

Moreover, the reactors of D2 are mentioned on present p. 8, first paragraph, as being suitable for carrying out the present invention. Hence claims 13-18 are not considered novel.